

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s_2013_5				
Comment Code					
Inspector Comment					
LMA has a flood response plan and recent flood fight training.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s_2013_6				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2031_01_s_2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at the office.					

No Photos

LM Start	0.03	Rating **	A	Issue No.	34
LM End	7.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.709990°	37.661853°	
			-121.155869°	-121.232863°	
DWR ID	DWR_RD2031_01_s_2018_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_34\_20180517\_00105.jpg



View looking downstream landside of the well maintained annual vegetation.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	0.03	Rating **	A	Issue No.	38
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.709990 °	37.694491 °
				-121.155870 °	-121.177521 °
DWR ID	DWR_RD2031_01_s_2018_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_38\_20180517\_00106.jpg



View looking downstream waterside of the well maintained annual vegetation.

LM Start	0.35	Rating **	A/W	Issue No.	983
LM End	0.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.705932 °	37.705932 °
				-121.157985 °	-121.157985 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20024					
DS_ID:20437					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe					
through the levee, 3.5 feet below the crown. Concrete U-shaped					
headwalls on both ends. Flap gate on the waterside (WS) end. Installed					
by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005.					
USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.36)].					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP\_SP\_2018\_20024\_33924.jpg



Concrete headwall on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

Concrete headwall and flapgate on WS toe.

Photo 1 of 3 : UCIP\_SP\_2018\_20044\_33942.jpg



09/11/2013 09:34

36-inch CMP riser on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



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### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	0.56	Rating **	A/W	Issue No.	984 (cont)
LM End	0.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.703323 °	37.703323 °
				-121.159771 °	-121.159771 °
DWR ID					

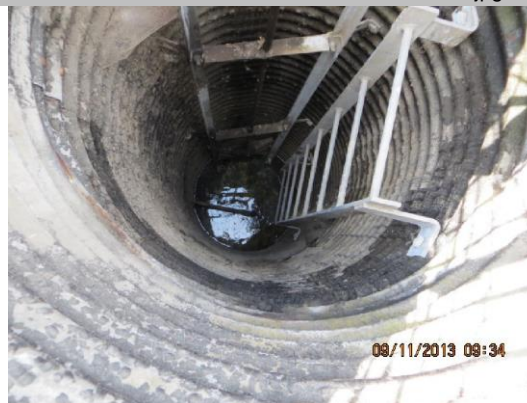
Comment Code

Inspector Comment

FS\_ID:20044  
DS\_ID:20439  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 15-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Drainage canal off the landside (LS) toe. This pipe replaced a 15-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.57)].  
FS Date: 9/11/2013

LM Start	<b>0.56</b>	Rating **	A/W	Issue No.	<b>984 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_20044\_33941.jpg



Slide gate in CMP riser on WS shoulder.

Photo 3 of 3 : UCIP\_SP\_2018\_20044\_33940.jpg



Drainage ditch at inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

Photo 1 of 1 : SP\_2018\_RD2031\_307\_36\_20180515\_00019.jpg



View of rodent burrows on landside slope.

Photo 1 of 1 : SP\_2018\_RD2031\_307\_42\_20180515\_00023.jpg



View of the erosion of the landside levee slope.

Photo 1 of 3 : SP\_2018\_RD2031\_307\_59\_20180515\_00036.jpg



View of the rodent holes on the landside levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement





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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.16	Rating **	M	Issue No.	44 (cont)	
LM End	1.16	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.698848 °		37.698848 °
				-121.168088 °		-121.168088 °
DWR ID	DWR_RD2031_01_f_2016_44					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_RD2031\_307\_44\_20180515\_00026.jpg



Another view of the rodent holes on the landside levee slope.

LM Start	1.41	Rating **	U	Issue No.	62
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.699833 °	37.699833 °
				-121.172060 °	-121.172060 °
DWR ID	DWR_RD2031_01_s_2017_62				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_62\_20180515\_00039.jpg



View of the erosion on the levee slope penetrating levee prism.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	990
LM End	1.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.698921 °	37.698921 °
				-121.174144 °	-121.174144 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20088 DS_ID:20446 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.56)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20088\_34030.jpg



Bowl shaped concrete inlet on LS slope.

LM Start	1.55	Rating **	A/W	Issue No.	990 (cont)
LM End	1.55	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_20088\_34029.jpg



Bowl shaped concrete inlet on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.55	Rating **	A/W	Issue No.	990 (cont)	
LM End	1.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.698921 °	37.698921 °	
				-121.174144 °	-121.174144 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20088						
DS_ID:20446						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 3.5 feet below the crown. Concrete headwalls on						
both ends. Flap gate on the waterside (WS) end. Installed by USACE in						
1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San						
Joaquin O&M Manual 4, June 1968, (HLM 1.56)].						
FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_20088\_34028.jpg



Concrete U-shaped headwall on WS slope.

LM Start	1.56	Rating **	U	Issue No.	3
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698776 °	37.698776 °
				-121.174327 °	-121.174327 °
DWR ID	DWR_RD2031_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion is active around the irrigation standpipe.					

Photo 1 of 2 : SP\_2018\_RD2031\_307\_3\_20180515\_00001.jpg



View of the erosion site on landside slope, facing upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.56	Rating **	U	Issue No.	3 (cont)	
LM End	1.56	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.698776 °		37.698776 °
				-121.174327 °		-121.174327 °
DWR ID	DWR_RD2031_01_s_2012_3					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion is active around the irrigation standpipe.						

Photo 2 of 2 : SP\_2018\_RD2031\_307\_3\_20180515\_00002.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

LM Start	1.58	Rating **	U	Issue No.	8
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698610 °	37.698610 °
				-121.174598 °	-121.174598 °
DWR ID	DWR_RD2031_01_s_2012_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Active erosion is occurring around irrigation inlet.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_8\_20180515\_00007.jpg



10/26/2011 Active erosion shown around irrigation inlet.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.63	Rating **	U	Issue No.	9
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698208 °	37.698208 °
				-121.175400 °	-121.175400 °
DWR ID	DWR_RD2031_01_s_2012_9				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Active erosion around irrigation inlet in levee prism.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_9\_20180515\_00008.jpg



10/26/2011 Active erosion into levee prism around irrigation inlet.

LM Start	1.73	Rating **	C	Issue No.	29
LM End	1.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.697477 °	37.695818 °
				-121.176953 °	-121.177542 °
DWR ID	DWR_RD2031_01_s_2016_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Star thistle has been removed from the levee slope, Spring 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	991
LM End	1.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696958 °	37.696958 °
				-121.177464 °	-121.177464 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41354 DS_ID:20470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_41354\_34034.jpg



Concrete headwall on WS toe.

LM Start	<b>1.78</b>	Rating **	M	Issue No.	<b>991 (cont)</b>
LM End	<b>1.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_41354\_34033.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	991 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696958 °	37.696958 °	
				-121.177464 °	-121.177464 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41354 DS_ID:20470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_41354\_34032.jpg



Concrete headwall at LS toe.

LM Start	1.78	Rating **	M	Issue No.	992
LM End	1.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °
				-121.177470 °	-121.177470 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20092 DS_ID:20447 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20092\_34041.jpg



Concrete U-shaped headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.78	Rating **	M	Issue No.	992 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °	
				-121.177470 °	-121.177470 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20092 DS_ID:20447 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)]. FS Date: 9/11/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20092\_34040.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.78	Rating **	M	Issue No.	992 (cont)
LM End	1.78	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20092\_34039.jpg



Concrete U-shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	1.86	Rating **	M	Issue No.	49
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.695736 °	37.695736 °
				-121.177530 °	-121.177530 °
DWR ID	DWR_RD2031_01_s_2018_49				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several squirrel holes and active rodent activity, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_49\_20180517\_00110.jpg



View of the waterside where several squirrel holes are and active rodent activity.

LM Start	1.95	Rating **	M	Issue No.	52
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.694490 °	37.692495 °
				-121.177521 °	-121.177690 °
DWR ID	DWR_RD2031_01_s_2018_52				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This section of annual vegetation needs to be maintained, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_52\_20180517\_00111.jpg



View looking downstream waterside of a section where the annual vegetation needs to be maintained, Spring 2018.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	2.09	Rating **	A	Issue No.	54
LM End	7.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.692493 °	37.661853 °
				-121.177688 °	-121.232864 °
DWR ID	DWR_RD2031_01_s_2018_54				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation through this section is well maintained, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_54\_20180517\_00112.jpg



View looking downstream waterside of the well maintained annual vegetation, Spring 2018.

LM Start	2.34	Rating **	M	Issue No.	66
LM End	2.41	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.689116 °	37.688406 °
				-121.179113 °	-121.179886 °
DWR ID	DWR_RD2031_01_s_2017_66				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	2.39	Rating **	A/W	Issue No.	994	
LM End	2.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °	
				-121.179622 °	-121.179622 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013						

Photo 1 of 3 : UCIP\_SP\_2018\_20110\_34078.jpg



Flapgate and concrete headwall on WS toe.

LM Start	<b>2.39</b>	Rating **	A/W	Issue No.	<b>994 (cont)</b>
LM End	<b>2.39</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_20110\_34077.jpg



Vegetation covers outlet of pipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	2.39	Rating **	A/W	Issue No.	994 (cont)	
LM End	2.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °	
				-121.179622 °	-121.179622 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_20110\_34076.jpg



5'X5' concrete riser with pump on LS toe.

LM Start	3.08	Rating **	M	Issue No.	996
LM End	3.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °
				-121.190865 °	-121.190865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20449					
DS_ID:20451					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears to be abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)].					
FS Date: 9/11/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20449\_34506.jpg



Slide gate in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	3.08	Rating **	M	Issue No.	996 (cont)	
LM End	3.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °	
				-121.190865 °	-121.190865 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20449 DS_ID:20451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)]. FS Date: 9/11/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20449\_34505.jpg



Pipe not visible on LS toe.

LM Start	<b>3.08</b>	Rating **	M	Issue No.	<b>996 (cont)</b>
LM End	<b>3.08</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20449\_34504.jpg



Slide gate in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

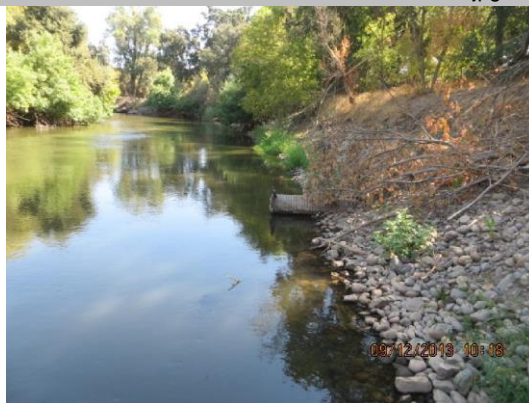
### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	3.66	Rating **	M	Issue No.	997
LM End	3.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.689900 °	37.689900 °
				-121.198319 °	-121.198319 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23064					
DS_ID:20478					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Good candidate for video inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate visible at the waterside (WS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.7), listed as a 20-inch pipe, 3.9 feet below the crown].					
FS Date: 9/12/2013					

LM Start	<b>3.66</b>	Rating **	M	Issue No.	<b>997 (cont)</b>
LM End	<b>3.66</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_23064\_39200.jpg



CMP pipe and flapgate visible at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_23064\_39199.jpg



CMP pipe and flapgate visible at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	3.69	Rating **	U	Issue No.	33
LM End	4.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689718 °	37.687811 °
				-121.198833 °	-121.205659 °
DWR ID	DWR_RD2031_01_f_2016_33				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Trim back woody vegetation at least 15 feet away from the landside levee toe.					

LM Start	<b>3.69</b>	Rating **	U	Issue No.	<b>33 (cont)</b>
LM End	<b>4.24</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP\_2018\_RD2031\_307\_33\_20180515\_00014.jpg



View of the vegetation at the levee toe and slope.

Photo 2 of 4 : SP\_2018\_RD2031\_307\_33\_20180515\_00015.jpg



Typical view of the tall vegetation on the landside levee slope and toe in this area.

LM Start	<b>3.69</b>	Rating **	U	Issue No.	<b>33 (cont)</b>
LM End	<b>4.24</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2018\_RD2031\_307\_33\_20180515\_00016.jpg



View of the tall vegetation on the landside levee slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	3.69	Rating **	U	Issue No.	33 (cont)
LM End	4.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689718 °	37.687811 °
				-121.198833 °	-121.205659 °
DWR ID	DWR_RD2031_01_f_2016_33				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Trim back woody vegetation at least 15 feet away from the landside levee toe.					

Photo 4 of 4 : SP\_2018\_RD2031\_307\_33\_20180515\_00017.jpg



Another view of the tall vegetation on the landside levee slope and toe.

LM Start	3.69	Rating **	U	Issue No.	56
LM End	4.39	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.689714 °	37.686605 °
				-121.198861 °	-121.207794 °
DWR ID	DWR_RD2031_01_s_2018_56				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation through the wild life persevere need to be maintained on the crown, landside, and waterside, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_56\_20180517\_00113.jpg



View looking upstream of the levee where the annual vegetation through the wild life persevere need to be maintained on the crown, landside, and waterside, Spring 2018.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement







**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	4.41	Rating **	A/W	Issue No.	1002 (cont)
LM End	4.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686290 °	37.686290 °
				-121.208000 °	-121.208000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20683 DS_ID:20458 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 14-inch concrete encased steel drainage pipe through the levee, 7.5 feet below the crown. Plate welded on the waterside (WS) end. 6-foot by 12-foot concrete distribution box on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.46)]. FS Date: 9/12/2013					

Photo 2 of 3 : UCIP\_SP\_2018\_20683\_34781.jpg



Welded steel plate over WS end of pipe.

LM Start	<b>4.41</b>	Rating **	A/W	Issue No.	<b>1002 (cont)</b>
LM End	<b>4.41</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20683\_34780.jpg



Concrete distribution box on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2018 05/16/2018	Sterling York

LM Start	4.52	Rating **	U	Issue No.	43
LM End	4.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.684988 °	37.684988 °
				-121.208366 °	-121.208366 °
DWR ID	DWR_RD2031_01_s_2016_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2031\_307\_43\_20180515\_00024.jpg



View of the tall vegetation on the landside levee slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	15
LM End	5.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.661853 °	37.630765 °
				-121.232862 °	-121.159189 °
DWR ID	DWR_RD2031_02_s_2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_15\_20180517\_00049.jpg



View looking downstream landside of the well maintained annual vegetation.

LM Start	0.00	Rating **	A	Issue No.	16
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.661853 °	37.630765 °
				-121.232863 °	-121.159189 °
DWR ID	DWR_RD2031_02_s_2018_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_16\_20180517\_00048.jpg



View looking downstream waterside of the well maintained annual vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.18	Rating **	U	Issue No.	20
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659394 °	37.659394 °
				-121.234020 °	-121.234020 °
DWR ID	DWR_RD2031_02_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove shrubs from levee toe to allow visibility and access.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_20\_20180515\_00007.jpg



View of the dense shrubs at the levee toe.

LM Start	0.22	Rating **	A/W	Issue No.	967
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °
				-121.234274 °	-121.234274 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20703					
DS_ID:20482					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].					
FS Date: 9/12/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20703\_34822.jpg



Pump on platform at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	967 (cont)	
LM End	0.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °	
				-121.234274 °	-121.234274 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20703						
DS_ID:20482						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the						
levee, 3.6 feet below the crown. Concrete U-shaped headwall on the						
waterside (WS) end. Flap gate on the WS end. Pump on pile structure						
on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005.						
USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].						
FS Date: 9/12/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20703\_34821.jpg



Pond at outlet on WS toe.

LM Start	<b>0.22</b>	Rating **	A/W	Issue No.	<b>967 (cont)</b>
LM End	<b>0.22</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20703\_34820.jpg



Concrete U-shaped headwall with flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	968
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °
				-121.234280 °	-121.234280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013					

LM Start	<b>0.22</b>	Rating **	A/W	Issue No.	<b>968 (cont)</b>
LM End	<b>0.22</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_20704\_34826.jpg



Pump on pier on LS toe with shed at pump walkway.

Photo 2 of 3 : UCIP\_SP\_2018\_20704\_34825.jpg



Pond at outlet on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.22	Rating **	A/W	Issue No.	968 (cont)
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °
				-121.234280 °	-121.234280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013					

Photo 3 of 3 : UCIP\_SP\_2018\_20704\_34824.jpg



Flap gate at Concrete outlet on WS toe.

LM Start	0.24	Rating **	M	Issue No.	969	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.658595 °	37.658595 °	
				-121.234410 °	-121.234410 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52626 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet filled with soil. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)]. FS Date: 5/17/2018						

Photo 1 of 3 : UCIP\_SP\_2018\_52626\_34834.jpg



Slide gate in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.24	Rating **	M	Issue No.	969 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658595 °	37.658595 °	
				-121.234410 °	-121.234410 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52626						
DS_ID:20484						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Inlet filled with soil.						
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)].						
FS Date: 5/17/2018						

Photo 2 of 3 : UCIP\_SP\_2018\_52626\_34833.jpg



Concrete headwall on LS toe at edge of pond.

LM Start	<b>0.24</b>	Rating **	M	Issue No.	<b>969 (cont)</b>
LM End	<b>0.24</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_52626\_34832.jpg



Concrete headwall on LS toe at edge of pond.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	0.77	Rating **	M	Issue No.	18
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.653832 °	37.653832 °
				-121.229311 °	-121.229311 °
DWR ID	DWR_RD2031_02_s_2018_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove fallen tree from levee slope, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_18\_20180517\_00051.jpg



View of a fallen tree on the landside levee slope that needs to be removed, Spring 2018.

LM Start	1.42	Rating **	C	Issue No.	965
LM End	1.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.648005 °	37.647476 °
				-121.221039 °	-121.220766 °
DWR ID	DWR_RD2031_02_s_2012_965				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild rose bush on landside slope. LMA mowed the shrubs in fall 2016. Site must be maintained or shrubs will grow back.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	2.14	Rating **	U	Issue No.	30
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640217 °
				-121.221539 °	-121.217870 °
DWR ID	DWR_RD2031_02_s_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The landside slope is unmaintained and has excessive vegetation that is obstructing visibility and access.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_30\_20180515\_00014.jpg



View of the dense vegetation on the landside levee slope.

LM Start	2.14	Rating **	M	Issue No.	31
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640217 °
				-121.221539 °	-121.217870 °
DWR ID	DWR_RD2031_02_s_2017_31				
Comment Code					
Inspector Comment					
The vegetation on the slope is obstructing visibility and access.					

No Photos

LM Start	2.35	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.640228 °	37.638301 °
				-121.217766 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>970</b>
LM End	<b>2.72</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.637760 °	37.637760 °	
			-121.211743 °	-121.211743 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:20713  
DS\_ID:20490  
EP\_NO: 11758  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pipe rusted through and failing at WS toe. Good indicator of internal condition of pipe. Good candidate for video inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. 20-inch steel pipe and 1.25-inch galvanized conduit sleeved through the 24-inch pipe. Annular space pressure grouted. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. 36-inch concrete standpipe at the LS toe with pump on a 48-inch steel standpipe. (20-inch and 1.5-inch pipes installed under Permit No. 11758, 1976 - Faith Ranch).  
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.75)].  
FS Date: 9/17/2013

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>970 (cont)</b>
LM End	<b>2.72</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_20713\_34838.jpg



Pipe visible on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_20713\_34837.jpg



Flow line of pipe completely rusted through at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	2.72	Rating **	M	Issue No.	970 (cont)
LM End	2.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637760 °	37.637760 °
				-121.211743 °	-121.211743 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20713 DS_ID:20490 EP_NO: 11758 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe rusted through and failing at WS toe. Good indicator of internal condition of pipe. Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. 20-inch steel pipe and 1.25-inch galvanized conduit sleeved through the 24-inch pipe. Annular space pressure grouted. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. 36-inch concrete standpipe at the LS toe with pump on a 48-inch steel standpipe. (20-inch and 1.5-inch pipes installed under Permit No. 11758, 1976 - Faith Ranch). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.75)]. FS Date: 9/17/2013					

Photo 3 of 3 : UCIP\_SP\_2018\_20713\_34836.jpg



Slide gate in 48-inch CMP riser on WS slope.

LM Start	3.76	Rating **	A/W	Issue No.	972
LM End	3.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.638063 °	37.638063 °
				-121.192917 °	-121.192917 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20723					
DS_ID:20507					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].					
FS Date: 9/17/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_20723\_34882.jpg



Flap gate on CMP pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	3.76	Rating **	A/W	Issue No.	972 (cont)	
LM End	3.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.638063 °		37.638063 °
				-121.192917 °		-121.192917 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20723						
DS_ID:20507						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].						
FS Date: 9/17/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20723\_34881.jpg



Concrete headwall on LS toe.

LM Start	<b>3.76</b>	Rating **	A/W	Issue No.	<b>972 (cont)</b>
LM End	<b>3.76</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20723\_34880.jpg



Drop inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	3.79	Rating **	A/W	Issue No.	973
LM End	3.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637998 °	37.637998 °
				-121.192535 °	-121.192535 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20725					
DS_ID:20495					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe					
through the levee, 9 feet below the crown. Concrete U-shaped headwall					
and flap gate on the waterside (WS) end. [Additional Reference(s):					
DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June					
1968, (HLM 3.82)].					
FS Date: 9/17/2013					

No Photos

LM Start	3.84	Rating **	A/W	Issue No.	974
LM End	3.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637924 °	37.637924 °
				-121.191600 °	-121.191600 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51374					
DS_ID:20496					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 11/16/2016 Crossing has been downgraded from Urgent to No Action Needed debris has been cleared from both WS and LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking closure of flapgate on WS toe. (W. Wylie - DWR UCIP)					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end.					
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666, Sheets 1666/23 and 1666/53, (Station 2+38S.T)].					
FS Date: 11/16/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_51374\_34886.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	3.84	Rating **	A/W	Issue No.	974 (cont)	
LM End	3.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.637924 °	37.637924 °	
				-121.191600 °	-121.191600 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51374						
DS_ID:20496						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/16/2016 Crossing has been downgraded from						
Urgent to No Action Needed debris has been cleared from both WS and						
LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking						
closure of flapgate on WS toe. (W. Wylie - DWR UCIP)						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 11 feet below the crown. Concrete U-shaped						
headwalls on each end. Flap gate on the waterside (WS) end.						
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin						
O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666,						
Sheets 1666/23 and 1666/53, (Station 2+38S.T)].						
FS Date: 11/16/2016						

Photo 2 of 3 : UCIP\_SP\_2018\_51374\_34885.jpg



Concrete headwall on WS toe.

LM Start	<b>3.84</b>	Rating **	A/W	Issue No.	<b>974 (cont)</b>
LM End	<b>3.84</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_51374\_34884.jpg



Flapgate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	3.84	Rating **	A	Issue No.	17
LM End	3.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.637916 °	37.637916 °
				-121.191595 °	-121.191595 °
DWR ID	DWR_RD2031_02_f_2016_17				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The slope does not show any signs of separation, loss of soil, or instability, Spring 2018.					

Photo 1 of 1 : SP\_2018\_RD2031\_308\_17\_20180515\_00006.jpg



View of the tire tracks on the levee slope.

LM Start	4.16	Rating **	A/W	Issue No.	975	
LM End	4.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °	
				-121.190765 °	-121.190765 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20728 DS_ID:20497 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)]. FS Date: 9/17/2013						

Photo 1 of 3 : UCIP\_SP\_2018\_20728\_34895.jpg



Concrete headwall at ditch on LS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	4.16	Rating **	A/W	Issue No.	975 (cont)	
LM End	4.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °	
				-121.190765 °	-121.190765 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20728 DS_ID:20497 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)]. FS Date: 9/17/2013						

Photo 2 of 3 : UCIP\_SP\_2018\_20728\_34894.jpg



Concrete headwall on LS toe.

LM Start	<b>4.16</b>	Rating **	A/W	Issue No.	<b>975 (cont)</b>
LM End	<b>4.16</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_20728\_34893.jpg



Headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	4.29	Rating **	A/W	Issue No.	1
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716°	37.630765°
				-121.189370°	-121.159189°
DWR ID	RD2031U02RM78.7				

**Comment Code**

**Inspector Comment**

10/04/2017: The erosion in the berm again was found further progressed toward levee toe.  
 07/08/2016: The erosion in the berm was found further progressed toward levee toe.  
 08/19/2015: No significant change observed.  
 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.  
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.  
 07/18/2012: No significant change observed on the site.  
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.  
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]

LM Start	<b>4.29</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>5.97</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_RD2031\_308\_1\_20180515\_00001.jpg



Looking upstream of the erosion site.

Photo 2 of 4 : SP\_2018\_RD2031\_308\_1\_20180515\_00002.jpg



Looking downstream of the erosion site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2018 05/16/2018	Sterling York

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716°	37.630765°
				-121.189370°	-121.159189°
DWR ID	RD2031U02RM78.7				

**Comment Code**

**Inspector Comment**

10/04/2017: The erosion in the berm again was found further progressed toward levee toe.  
 07/08/2016: The erosion in the berm was found further progressed toward levee toe.  
 08/19/2015: No significant change observed.  
 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.  
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.  
 07/18/2012: No significant change observed on the site.  
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.  
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]

LM Start	<b>4.29</b>	Rating **	A/W	Issue No.	<b>1 (cont)</b>
LM End	<b>5.97</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2031\_308\_1\_20180515\_00003.jpg



Close view of the pocket erosion.

Photo 4 of 4 : SP\_2018\_RD2031\_308\_1\_20180515\_00004.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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